

# COMMERCIAL FEEDING STUFFS

## Report for 1965

J. GORDON HANNA



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The work represented by this report was performed under the direction of H. J. Fisher, Chief Chemist, retired in 1966 and presently Chemist Emeritus. Analytical work was performed by Charles Hahn, Helen Kocaba, Richard Merwin and Werner Mueller. Biological assays were under the direction of Lester Hankin. Microscopic examinations were by Lois Hornig. R. Richard Nichols performed the sampling and Frank Lesco the sample preparations. The report was prepared with the assistance of Bernice Lindgren, secretary, and Marilyn Fishbone, typist.

The annual feed report for 1965 is issued in a different form from that customarily issued in previous years. It is designed to aid in the comparison among the relative reliabilities of the different manufacturers and the analytical results for individual samples are not listed. The report is divided into three tables. In the first table are listed the number of samples from each manufacturer analyzed for protein, fat, and fiber; the number of deficiencies; and the average per cent of claim for each component. Because the fiber claims are maxima, the values for per cent of claims are less than 100 if the guaranties are met. The same type of data for vitamin carriers is listed in the second table and for medicants in medicated feed in the third table. The results for a total of 732 samples are summarized.

Care must be exercised in making comparisons based on the per cent claims listed which involve manufacturers represented by few samples. These data are less reliable than those for manufacturers represented by numerous samples. Accumulated data from successive bulletins should provide better bases for comparisons in such cases.

The deficiencies noted were based on tolerances of 0.75 per cent for protein and fiber, 0.25 per cent for fat, and 20 per cent of guarantee for drugs.

## COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTEES

Manufacturer	No. of samples	No. of guarantees			Samples deficient			Average % of claims		
		Fat	Fiber	Total	Fat	Fiber	Protein	Fat	Fiber	Protein
Agway, Inc.	76	76	76	228	3	0	1	108.2	147.1	74.2
Albers Milling Co.	6	6	6	18	0	0	0	106.3	138.1	77.6
Allied Mills, Inc.	3	3	3	9	0	0	0	125.4	167.9	68.0
Armburg Mfg. Co., Inc.	1	1	1	3	0	0	0	106.3	189.7	19.5
American Crystal Sugar Co.	1	1	1	3	0	0	0	112.5	213.3	85.1
American Cyanamid Co.	2	1	1	0	2	0	0	100.0	100.5	---
American Feed Co.	1	1	1	3	0	0	0	113.2	110.1	73.0
American Maize-Products Co.	1	1	1	3	0	0	0	149.0	349.0	10.7
Atlantic Processing Co.	1	1	1	3	0	0	0	115.8	158.0	11.7
Beacon Feeds	23	22	23	22	67	0	0	104.6	129.6	71.1
The Berkman Grain Co.	9	9	9	9	27	0	0	101.2	137.6	76.8
Bloomfield Farmers Exchange, Inc.	2	2	2	2	6	1	0	101.6	113.2	72.0
The Borden Co.	1	1	1	1	3	0	0	532.6	214.5	50.0
Brooklawn Grain & Feed Co.	2	2	2	2	6	0	0	105.7	127.2	68.6
Brown-Forman Distillers Corp.	2	2	2	2	6	0	1	116.1	89.3	86.7
The Buckeye Cellulose Corp.	1	1	1	1	3	0	0	102.5	120.0	90.9
Camden Grain Co.	1	1	1	1	3	0	0	112.5	111.3	68.2
Canada & Dominion Sugar Co. Ltd.	1	1	1	1	3	0	0	135.7	346.7	86.0
The A.B. Capple Co.	1	1	1	1	3	0	0	114.7	210.0	92.5
Central Conn. Co-op Farmers' Association, Inc.	14	14	14	42	0	2	0	104.6	116.0	84.5

COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTEES

Commercial Feeding Stuffs

Manufacturer	No. of samples	No. of guarantees			Samples deficient			Average % of claims		
		Fiber	Fat	Total	Fiber	Fat	Protein	Fiber	Fat	Protein
Central Soya	21	21	21	63	1	0	105.5	211.0	82.1	
Clinton Corn Processing Co.	1	1	1	3	0	0	108.1	235.0	92.7	
Connecticut Bi-Products, Inc.	4	4	3	9	0	0	104.6	314.6	33.7	
Consolidated Mills, Inc.	1	1	1	3	0	0	111.7	136.7	79.0	
Consolidated Rendering Co.	2	2	2	6	0	0	99.6	138.0	64.8	
Corn Products Co.	1	1	1	3	0	0	109.5	274.0	69.0	
Country Best Foods, Agway, Inc.	1	1	1	3	0	0	101.2	111.1	73.8	
Dawnwood Farms, Inc.	1	1	1	3	0	0	100.0	130.2	89.0	
Derby Feed Store	4	3	3	9	0	0	108.2	111.0	75.8	
Dominion Malting Co. Ltd.	1	1	1	3	1	0	97.2	158.0	148.5	
Dowagiac Milling Co.	2	2	2	6	0	0	123.1	122.3	78.1	
John W. Eshelman & Sons	36	36	36	108	0	0	111.7	164.9	79.6	
Farm Bureau Association	10	10	10	30	0	0	109.4	116.4	87.8	
Farmers Feed Co.	1	1	1	3	0	0	102.9	133.3	72.5	
Florida Citrus Canners Cooperative	1	1	1	3	0	0	112.5	179.5	88.2	
Fruen Milling Co.	1	1	1	3	0	0	110.0	120.4	75.3	
Gloucester By Products, Inc.	1	1	1	3	0	0	115.0	177.2	37.0	
Golden Gem Growers, Inc.	1	1	1	3	0	0	100.0	196.0	94.4	
The Great Atlantic & Pacific Tea Co., Inc.	1	1	1	3	0	0	107.5	133.3	88.7	

## COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTEES

Connecticut Experiment Station

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Manufacturer	No. of samples	No. of guarantees			Samples deficient			Average % of claims		
		Protein	Fiber	Total	Fiber	Fat	Protein	Fiber	Fat	Protein
Hales & Hunter Co.	22	22	22	22	66	0	0	110.8	155.5	71.8
Harris Milling Co.	1	1	1	1	3	0	0	110.7	155.4	135.3
Hayward, Inc.	1	1	1	1	3	0	0	107.5	183.0	100.3
H.P. Hood & Sons, Inc.	1	1	1	1	3	0	0	107.3	100.7	77.6
E.C. & W.L. Hopkins, Inc.	3	2	2	2	6	0	0	107.2	125.6	83.5
Illinois Cereal Mills, Inc.	1	1	1	1	3	0	0	107.5	116.8	67.5
International Cheese Co., Inc.	1	1	0	1	2	0	0	113.6	-----	42.0
International Milling Co., Inc.	1	1	1	1	3	0	0	124.1	140.0	119.2
The William Kelly Milling Co.	1	1	1	1	3	0	0	113.3	112.8	72.8
Kellogg Co. of Canada, Ltd.	1	1	1	1	3	0	0	112.5	118.6	90.9
Keystone Dehydrators	1	1	1	1	3	0	1	100.0	57.0	104.1
Kraft Foods	1	1	1	1	3	0	0	110.5	165.1	85.1
Krause Milling Co.	1	1	1	1	3	0	0	117.5	126.6	74.8
Kuder Pulp Sales Co.	1	1	1	1	3	0	0	104.2	239.2	86.8
Lauhoff Grain Co.	1	1	1	1	3	0	0	127.8	113.2	64.7
The Libner Grain Co., Inc.	1	1	1	1	3	0	1	107.1	106.6	113.3
Lockwood Nutrition Service, Inc.	2	1	1	1	3	1	0	80.8	98.8	72.5
Machnicki's Grain Store	2	2	2	2	6	0	0	99.3	120.5	93.8
Maple Leaf Mills Ltd.	1	1	1	1	3	0	0	105.4	149.3	74.0

COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTEES

Commercial Feeding Stuffs

Manufacturer	No. of guarantees		Samples deficient		Average % of claims	
	No. of samples	%	Protein	Fiber	Fat	Fiber
Maxon Mills, Inc.	1	1	1	3	1	0
The Mennel Milling Co.	2	2	2	6	0	0
Milk Specialties, Inc.	2	2	2	6	0	0
Miner-Hillard Milling Co.	1	1	1	3	0	0
Minnesota Linseed Oil Co.	1	1	1	3	0	0
Minute Maid Co.	1	1	1	3	0	0
Mowat, Wilson & Co.	1	1	1	3	0	0
National Alfalfa Dehydrating & Milling Co.						
National Biscuit Co.	2	2	2	6	0	0
National Distillers Products Co.	1	1	1	3	0	0
Northern Ohio Sugar Co.	1	1	0	1	0	0
Ogden Grain Co.						
Parrish & Heimbecker Ltd.	1	1	1	3	0	0
Pierce Grain Corp.	3	2	2	6	0	0
Pillsbury Canada Ltd.	2	2	2	6	0	0
The Pillsbury Co.	1	1	1	3	0	0
Pittsburgh Brewing Co.	1	1	1	3	0	0
The Quaker Oats Co.						
The Quaker Oats Co. of Canada Ltd.	3	3	3	9	0	0

## COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTEES

Manufacturer	No. of Samples	No. of guarantees			Samples deficient			Average % of claims		
		Fiber	Fat	Protein	Fiber	Fat	Protein	Fiber	Fat	Protein
Ralston Purina Co.	77	76	76	228	4	0	0	105.5	151.2	63.0
Reading Milling Co., Inc.	1	1	1	3	0	0	1	103.1	185.7	121.6
Reliable Grain & Fuel Co.	1	1	1	3	0	0	0	114.1	106.3	62.1
Rytman Feed Co.	2	2	2	6	0	0	0	101.3	132.9	67.0
Schenley Distillers, Inc.	1	1	1	3	0	0	0	121.8	153.8	55.5
Schoeneck Farms, Inc.	1	1	1	3	0	0	0	101.5	154.0	91.0
Seymour Grain & Coal Co.	10	10	10	30	0	0	0	108.0	125.6	64.9
The Sherwin Williams Co.	2	2	2	6	0	0	0	103.2	608.0	81.6
Sherwood Feed Mills, Inc.	2	2	2	6	1	1	0	93.8	97.9	83.0
A. E. Staley Mfg. Co.	1	1	1	3	0	0	0	110.7	143.3	91.0
Triopicana Products, Inc.	1	1	1	3	0	0	0	112.5	134.5	93.9
Ultra-Life Laboratories, Inc.	4	4	4	4	12	0	0	114.3	116.6	81.4
United Cooperative Farmers, Inc.	16	16	16	48	0	0	0	108.4	118.1	70.2
Unity Feeds Division, Agway Inc.	14	14	14	42	0	0	0	109.8	152.0	71.4
Universal Food Products, Inc.	1	1	1	3	0	0	0	112.5	131.3	86.4
Universal Grain Co. of N.J.	1	1	1	3	0	1	0	131.7	80.0	62.2
William S. Warren & Son	5	5	5	5	15	0	0	106.3	147.7	94.7
H. K. Webster Co.	28	25	24	73	1	0	1	107.4	127.4	89.8
A. C. Wetherell	1	1	1	3	0	0	0	100.0	100.0	87.3

## COMPLIANCE OF 1965 FEED SAMPLES WITH GUARANTEES

Manufacturer	No. of Samples	No. of guarantees			Samples deficient			Average % of claims			
		Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
West-Nesbitt, Inc.	6	6	6	6	18	0	0	0	103.1	185.7	121.6
Whitmoyer Laboratories, Inc.	1	1	1	1	3	0	0	0	114.5	144.9	93.4
Wirthmore Feeds, Inc.	47	47	47	47	141	1	1	0	110.7	123.8	77.4
Wolf Savitsky & Sons, Inc.	12	12	12	12	36	0	0	0	112.7	132.6	85.5
Totals	581				1701	16	10	10			

Guarantees deficient - 2.1%

## VITAMIN CARRIERS

Manufacturer	No. of Samples	No. of Guaranties			
		Vitamin D	Panto-thenic acid	Niacin	Riboflavin
Agway, Inc. <sup>1</sup>	3	1	1	2	1
American Cyanamid Co.	2	2	0	0	0
Commercial Solvents Corp.	17	17	17	17	17
Drew Chemical Corp.	2	2	0	0	0
Hoffman La Roche, Inc.	1	1	1	1	1
Nopco Chemical Co.	1	1	0	0	0
Chas. Pfizer	2	2	1	1	1
Syntha Laboratories	3	3	2	3	2
Whitmoyer Laboratories, Inc.	7	7	3	3	3
Wirthmore Feeds, Inc. <sup>2</sup>	1	1	1	1	1
<b>Totals</b>	<b>39</b>	<b>37</b>	<b>26</b>	<b>28</b>	<b>26</b>

<sup>1</sup> Thiamine: 1 guaranty; no deficiency; 89% of claim.

Folic acid: 1 guaranty; 1 deficiency (high); 161% of claim.

<sup>2</sup> Thiamine: 1 guaranty; no deficiency; 107% of claim.

Folic acid: 1 guaranty; 1 deficiency (low); 76% of claim.

## VITAMIN CARRIERS

Total No. of Guars.	Samples deficient				Average % of claims		
	Vitamin D	Panto- thenic acid	Niacin	Ribo- flavin	Panto- thenic acid	Niacin	Ribo- flavin
5	0	0	0	1	81	104	123
2	0	0	0	0	--	--	--
51	0	0	0	0	98	100	101
2	0	0	0	0	--	--	--
4	0	0	0	0	86	85	113
1	0	0	0	0	--	--	--
5	0	0	0	0	90	98	91
10	0	0	0	0	86	101	100
9	0	0	0	0	86	90	94
<u>4</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>1</u>	183	151	131
93	0	1	1	2			

Guaranties deficient - 5.2%

Overall average % of claim - 105

## MEDICATED FEED MEDICANTS

Manufacturer	Medicant	No. of Samples	No. of Guarantees	No. of Deficiencies	Average % of Claims	Connecticut Experiment Station		Bulletin 683
						98	103	
Agway, Inc.	Amprolium Arsanilic acid Chlortetracycline hydrochloride Ethopabate 4-Nitrophenylarsonic acid Oxytetracycline hydrochloride Chlortetracycline hydrochloride	25	8 9 2 6 2 1 3	1 0 0 0 1 0 0	98 103 97 103 123 94 97			
American Cyanamid Co.	Amprolium Arsanilic acid Chlortetracycline hydrochloride Ethopabate p-Ureidobenzeneearsonic acid	6	1 2 1 1 2	0 0 0 0 0	100 101 120 96 101			
Beacon Feeds	Amprolium Arsanilic acid Chlortetracycline hydrochloride Ethopabate p-Ureidobenzeneearsonic acid	4	1 1 1 2	0 0 0 0	108 94 108 112			
The Berkman Grain Co.	Nitrophenide Sulfa quinoxaline	1	1	0	94			
Central Conn. Co-Op Farmers' Association, Inc.	Amprolium Chlortetracycline hydrochloride Furazolidone p-Ureidobenzeneearsonic acid	6	1 1 2 2	0 0 0 0	94 91 101 94			

## MEDICATED FEED MEDICANTS

## Commercial Feeding Stuffs

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Manufacturer	Medicant	No. of Samples	No. of guarantees	No. of deficiencies	Average % of claims	Commercial Feeding Stuffs	
						1	2
Central Soya	Amprolium Arsanilic acid Ethopabate Furazolidone Sulfa quinoxaline Zoalene	7	2 2 2 2 1 1	1 0 0 0 0 0	165 113 70 105 88 103	1 0 1 0 0 0	165 113 70 105 88 103
John W. Eshelman & Son	Sulfa quinoxaline p-Ureidobenzenearsonic acid	2	1	0	102	0	95
Farm Bureau Association	Amprolium Arsanilic acid	2	1 1	0 0	108 108	0 0	108 108
Hales & Hunter Co.	Amprolium Arsanilic acid Ethopabate Furazolidone	8	4 3 3 1	0 0 0 0	100 101 113 84	0 0 0 0	100 101 113 84
Ogden Grain Co.	Amprolium Arsanilic acid	5	3 2	0 0	93 106	0 0	93 106
Chas. Pfizer	Oxytetracycline hydrochloride	1	1	0	108	0	108
Ralston Purina Co.	Amprolium Arsanilic acid Ethopabate	18	5 1 5	0 0 0	111 107 102	0 0 0	111 107 102

## MEDICATED FEED MEDICANTS

Manufacturer	No. of samples	Medicant	No. of guarantees	No. of deficiencies	Average % of claims
Ralston Purina Co. ( cont. )					
		Furazolidene	2	0	108
		Nicarbazin	3	0	97
		3-Nitro-4-hydroxyphenylarsonic acid	3	0	107
		4-Nitrophenylarsonic acid	1	0	108
		Sulfaquinoxaline	2	0	100
		Zoalene	4	0	101
United Cooperative Farmers, Inc.	2	Chlortetracycline hydrochloride	1	0	80
		Furazolidone	1	0	114
Unity Feeds Division, Agway, Inc.	3	Amprolium	1	0	98
		Bithionol	1	0	100
		Ethopabate	1	0	100
		Methiotriazamine	1	0	100
		Sulfaquinoxaline	1	0	92
H. K. Webster Co.	4	Arsanilic acid	1	0	115
		Furazolidone	1	0	98
		4-Nitrophenylarsonic acid	1	0	108
		Zoalene	1	0	96
Wirthmore Feeds, Inc.	14	Amprolium	5	0	104
		Arsanilic acid	3	0	100
		Ethopabate	3	0	107

Manufacturer	No. of Samples	Medicant	No. of Guarantees		No. of Deficiencies	Average % of Claims
			Total	% of Guarantees Deficient		
Wirthmore Feeds, Inc. (cont.)						
		Furazolidone	2	0	102	
		4-Nitrophenylarsonic acid	2	0	101	
		Oxytetracycline hydrochloride	1	0	100	
		Sulfaquinoxaline	2	0	103	
	2	Arsanilic acid	2	1	50	
		Chlortetracycline hydrochloride	1	1	0	
	112	Totals	135	6	4.4	
		Overall average % of claims				100

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